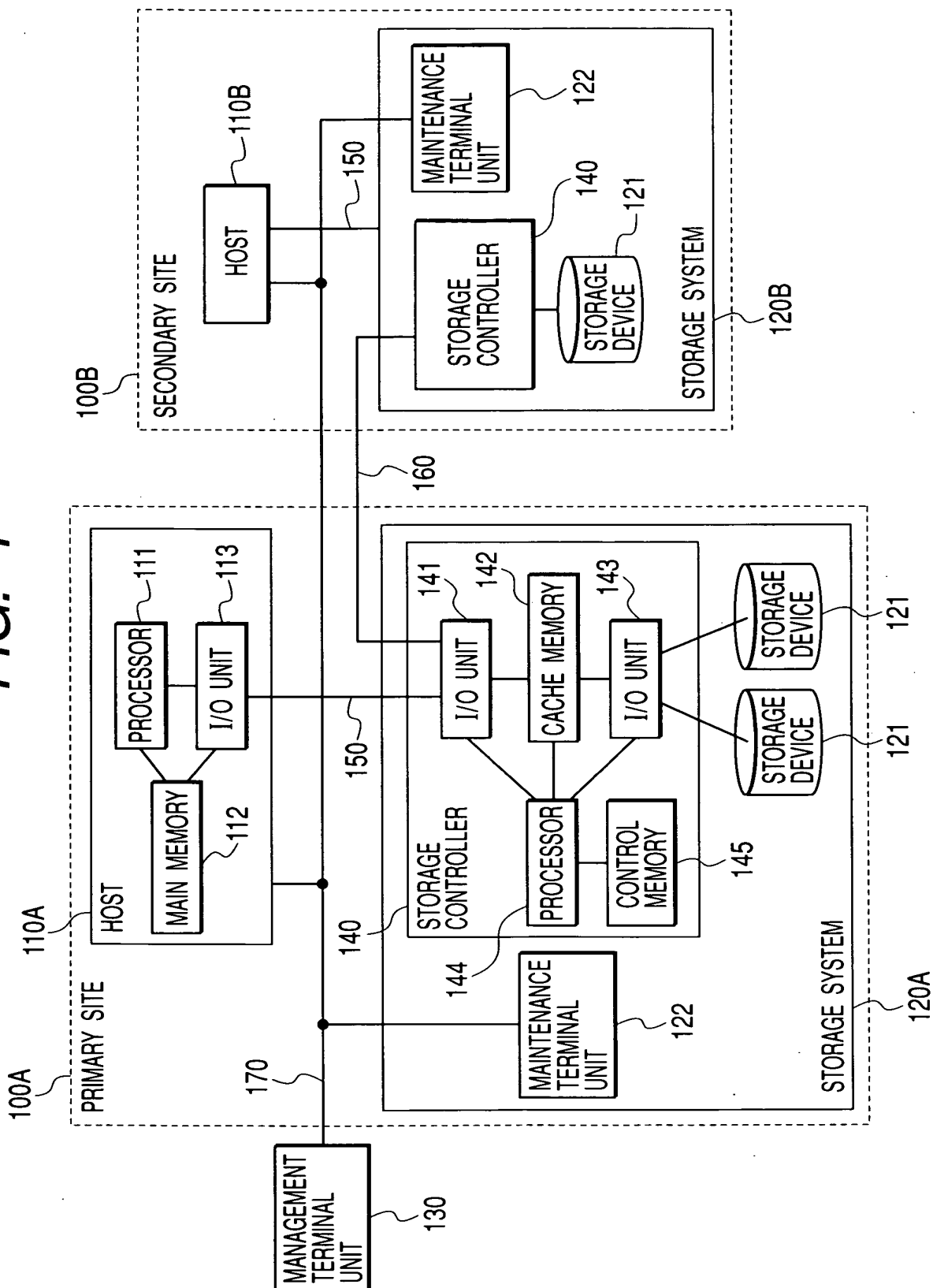


FIG. 1



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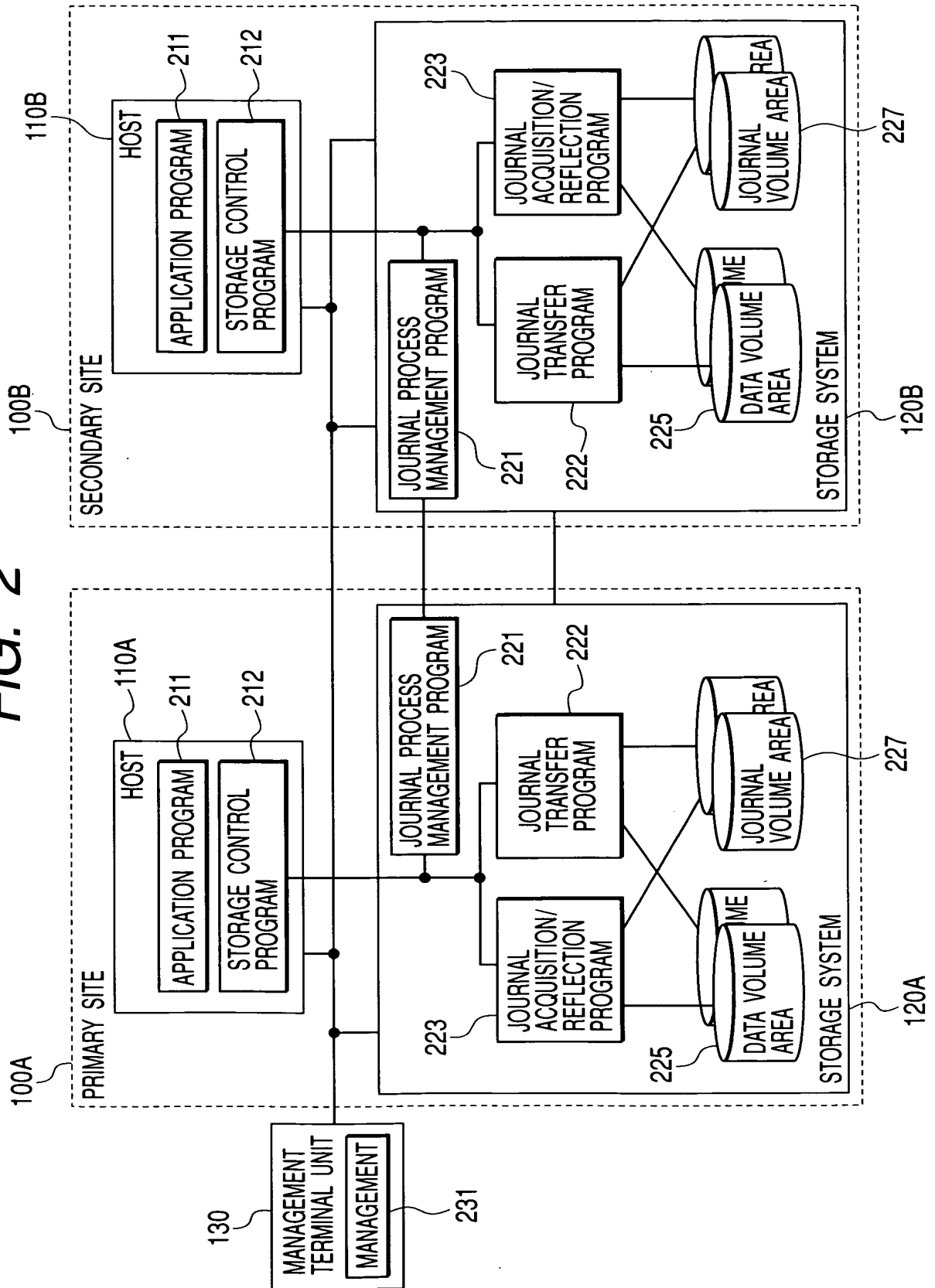
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FIG. 2



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FIG. 3

410	JOURNAL GROUP ID					
420	LATEST JOURNAL SEQUENCE NO.					
430	DATA VOLUME INFORMATION	DATA VOLUME 1	DATA VOLUME MANAGEMENT INFORMATION			431
		DATA VOLUME 2	...			
		...				
440	JOURNAL VOLUME INFORMATION	JOURNAL VOLUME 1	VOLUME ID			441
			FIRST JOURNAL SEQUENCE NO.			442
			LAST JOURNAL SEQUENCE NO.			443
		JOURNAL VOLUME 2	...			
		...				
450	TRANSFER GROUP INFORMATION	JOURNAL VOLUME ID FOR STORAGE				444
		JOURNAL GROUP ID				451
		TRANSFER-COMPLETED JOURNAL SEQUENCE NO.				452
		REFLECTION-COMPLETED JOURNAL SEQUENCE NO.				453
		PAIR STATUS				454

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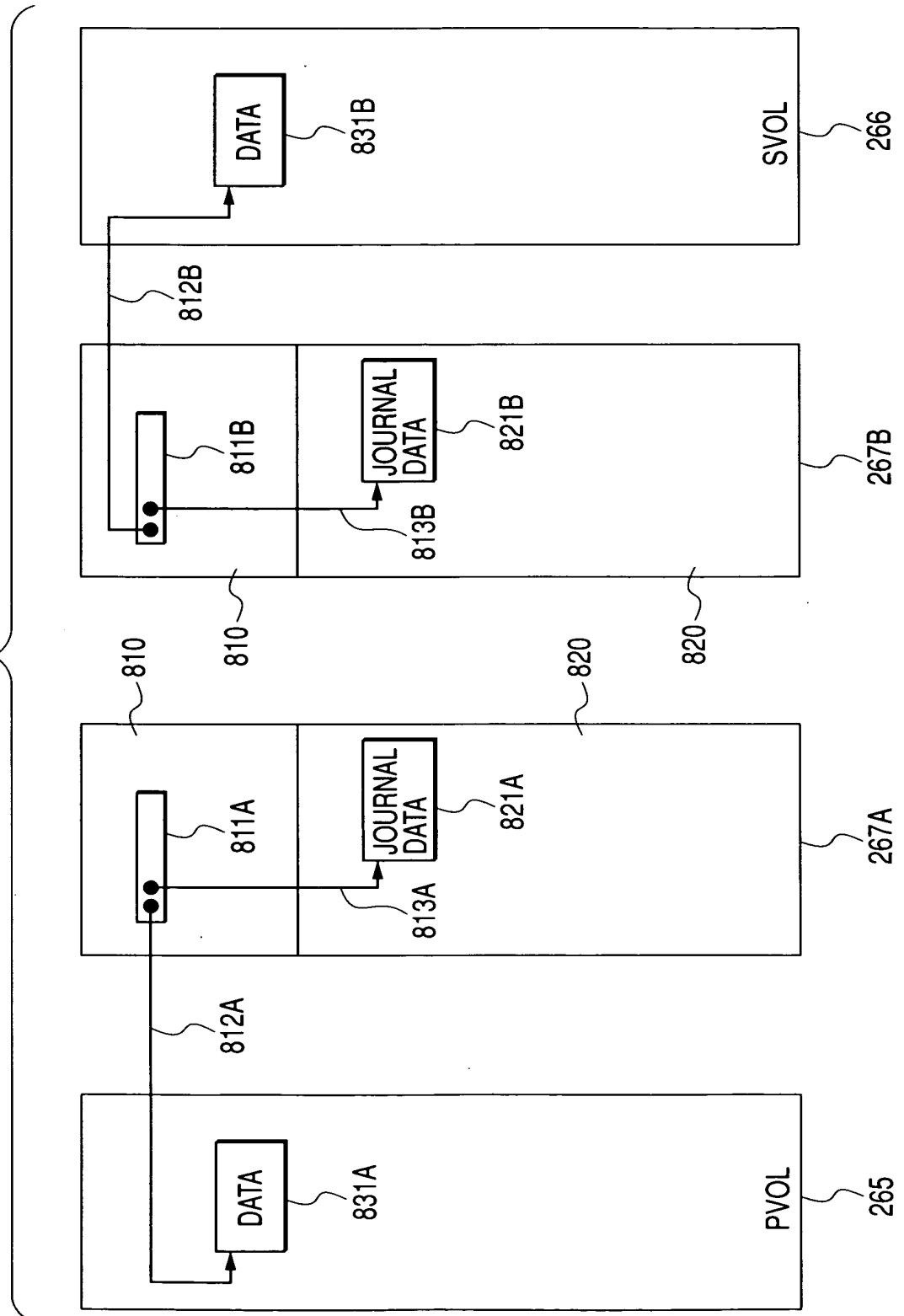
FIG. 4

510	VOLUME ID	
	520 PAIR VOLUME INFORMATION	STORAGE DEVICE SYSTEM ID 521
		DATA VOLUME ID 522
		PAIR STATUS 523
		EFFECTIVE FLAG OF DIFFERENTIAL BIT MAP 524
		DIFFERENTIAL BIT MAP 525

FIG. 5

710	DATA VOLUME INFORMATION	UPDATE TIME 711
		STORAGE DATA VOLUME OFFSET IN JOURNAL GROUP 712
		DATA STORAGE ADDRESS 713
720	JOURNAL INFORMATION	JOURNAL DATA STORAGE ADDRESS 721
		DATA LENGTH 722
		JOURNAL SEQUENCE NO. 723

FIG. 6



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FIG. 7

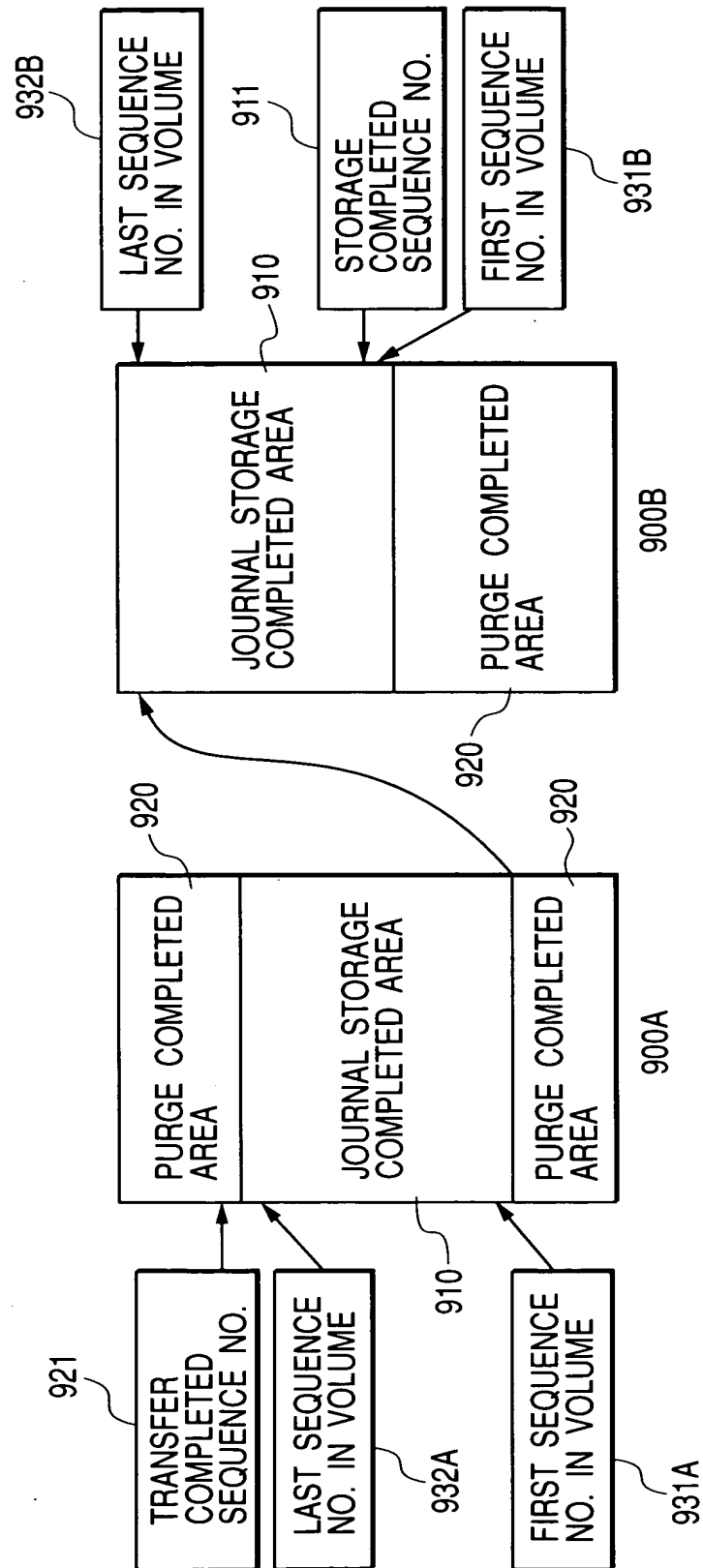
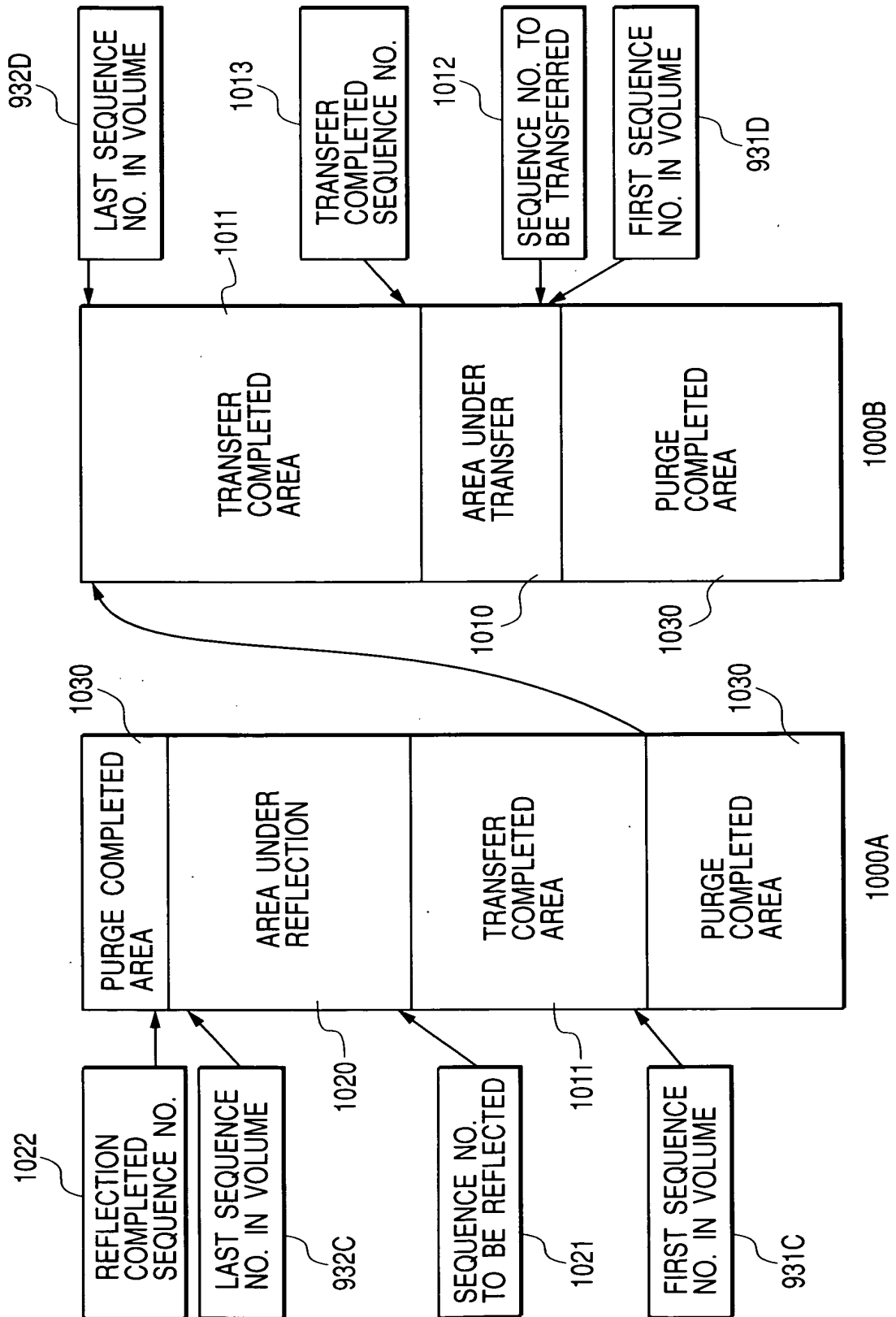


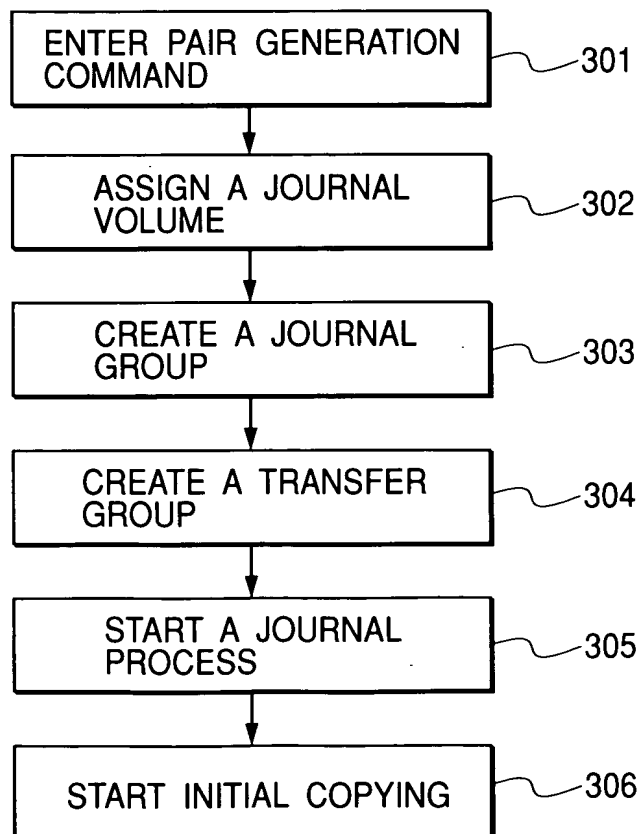
FIG. 8



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FIG. 9

1110	EFFECTIVE FLAG OF SWITCHING JUDGMENT			
1120	JUDGMENT INFORMATION	JOURNAL VOLUME SETTING ITEM	EFFECTIVE FLAG	1121
			THRESHOLD CONDITIONS	1122
		TIME DIFFERENCE SETTING ITEM	EFFECTIVE FLAG	1123
			THRESHOLD CONDITIONS	1124
1130	OPERATION UNDER OUT-OF-CONDITION CIRCUMSTANCES			

FIG. 10

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FIG. 11

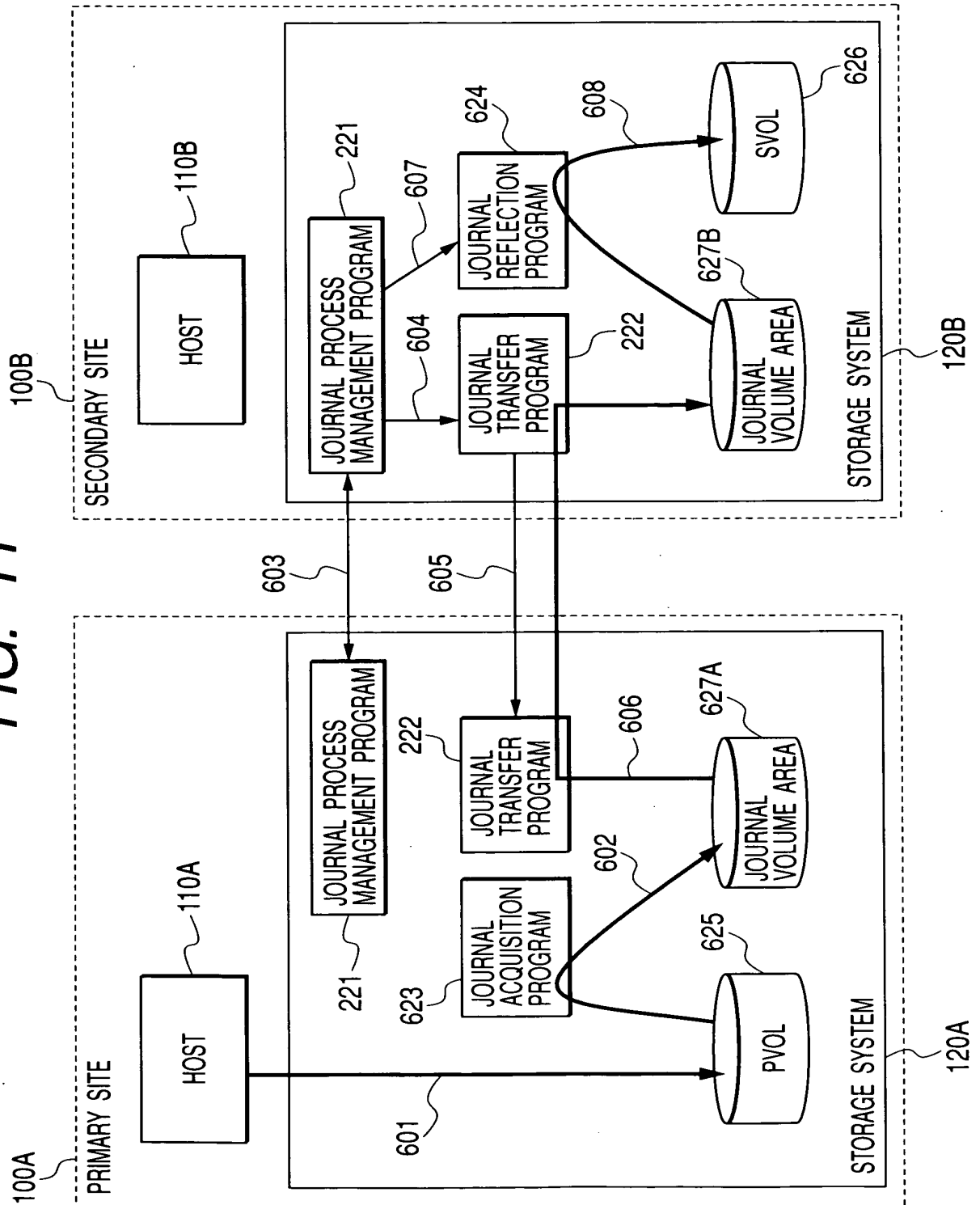


FIG. 12

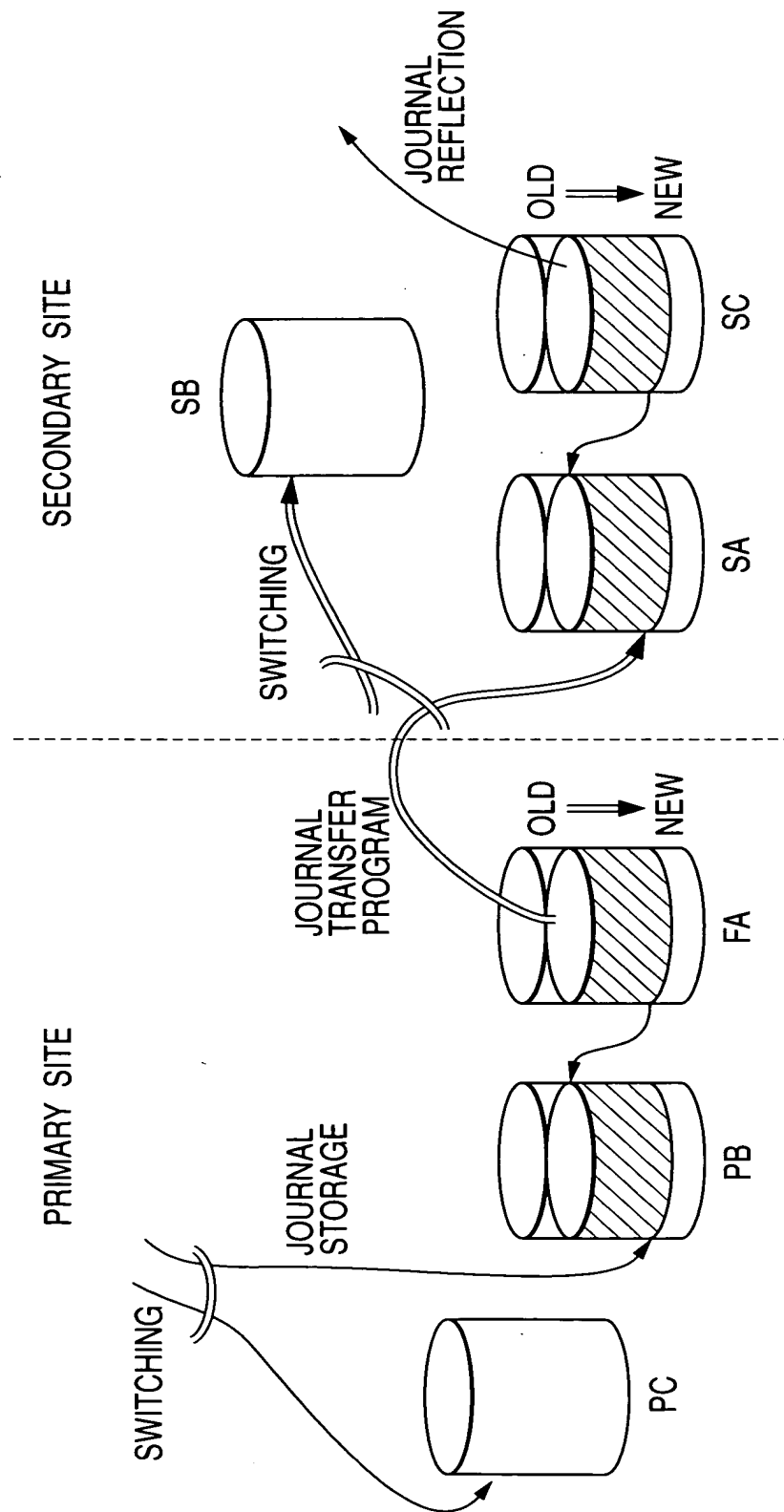
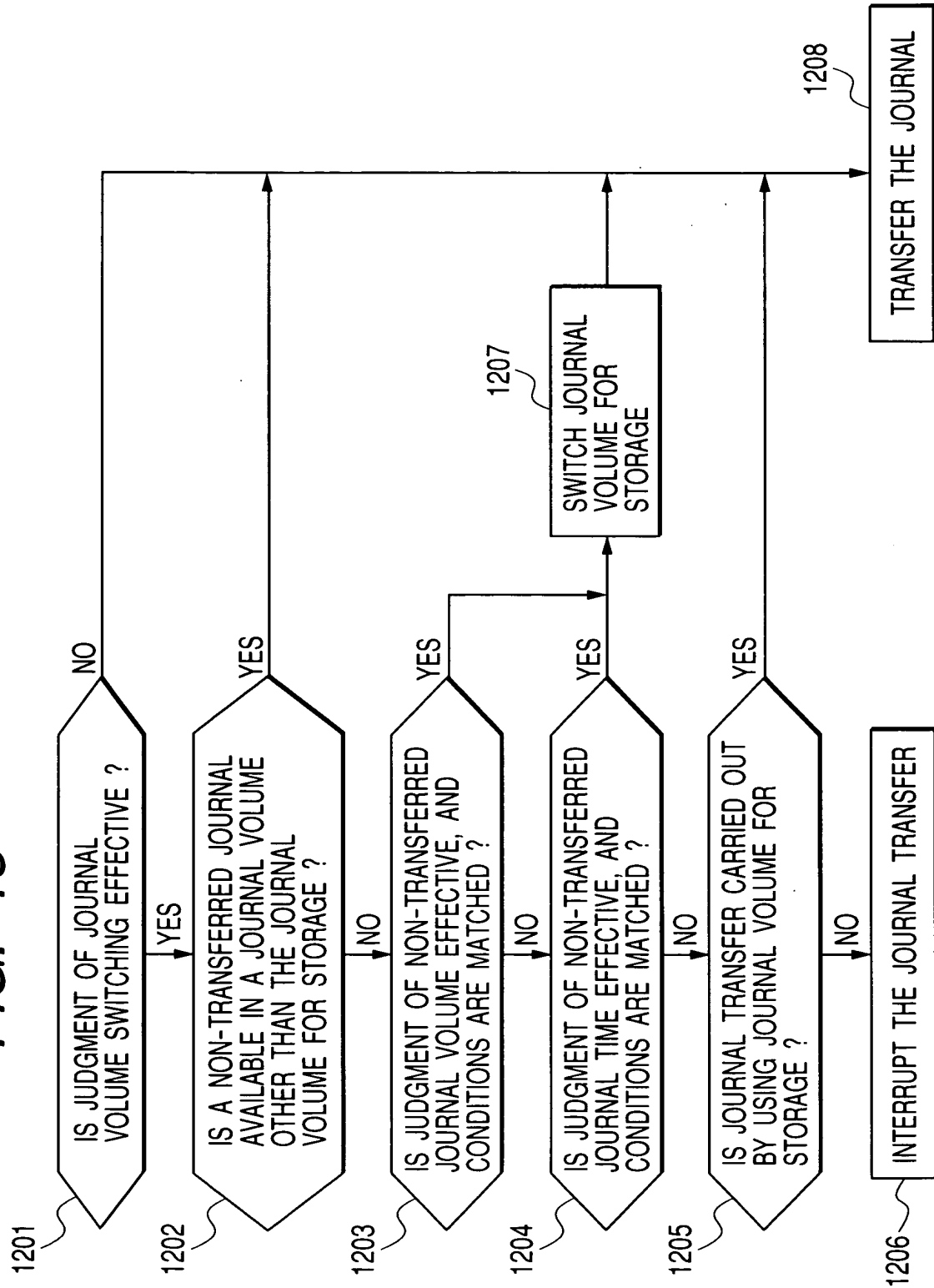


FIG. 13



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FIG. 14

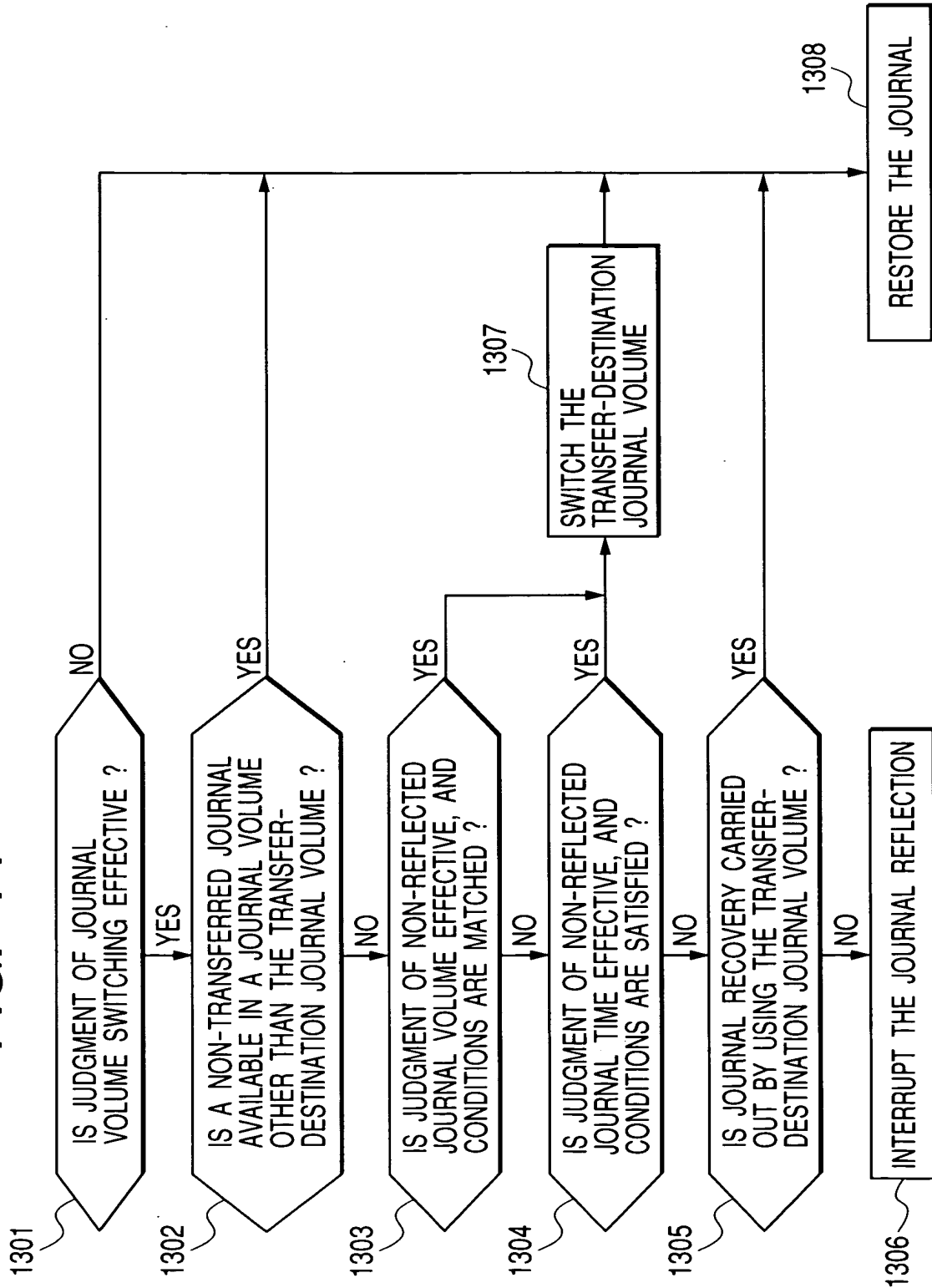


FIG. 15

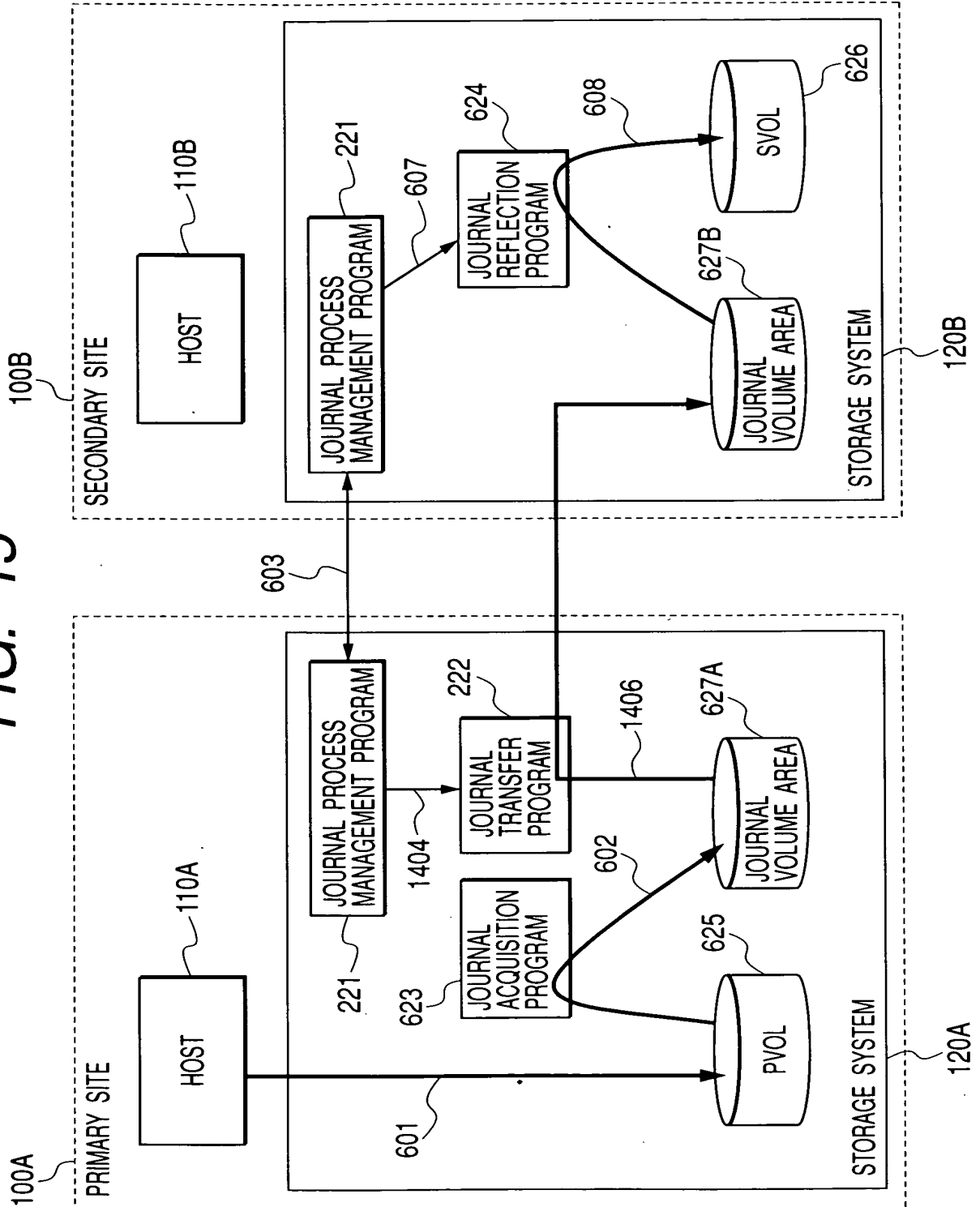
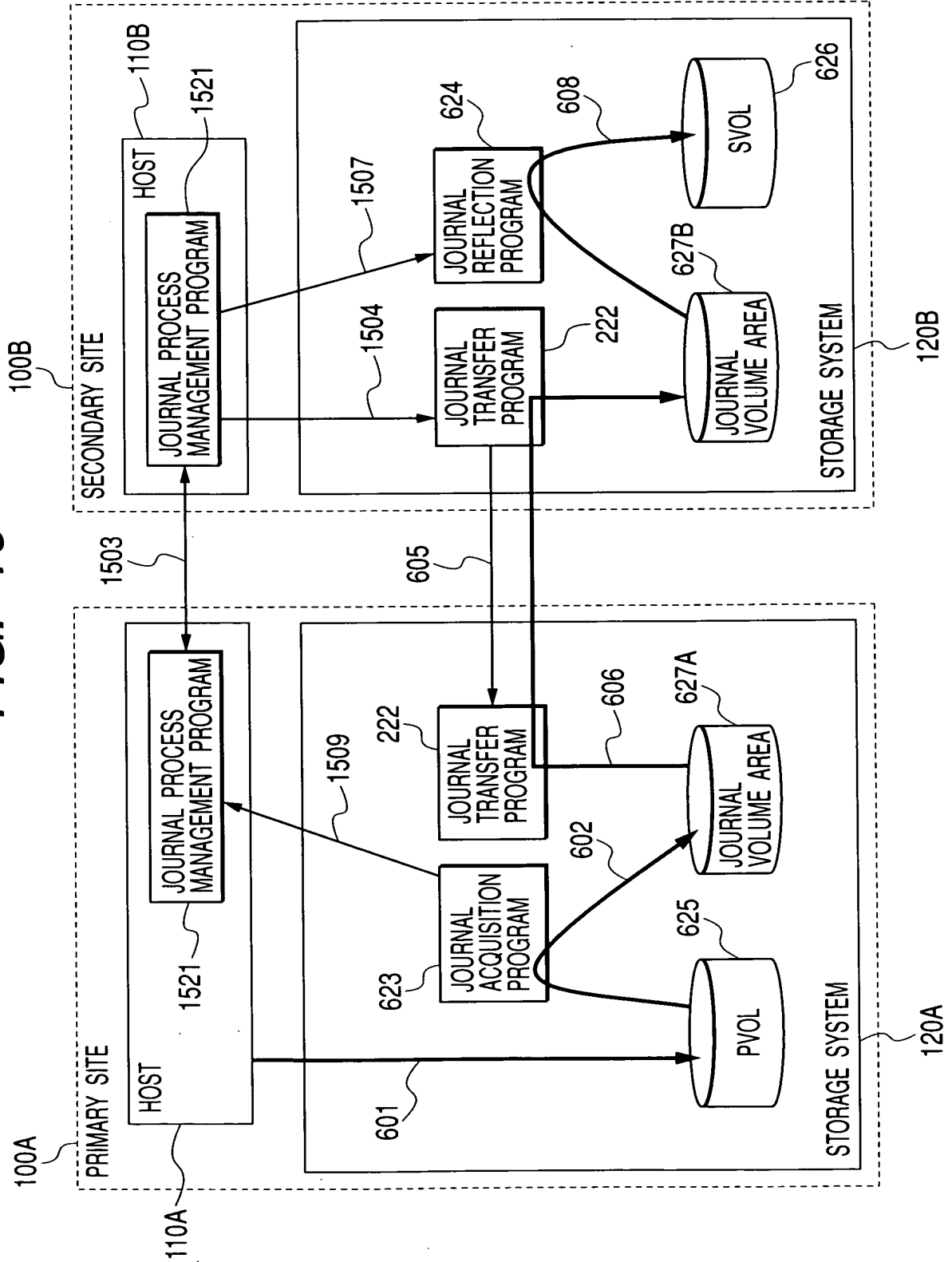


FIG. 16



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FIG. 17

